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GODDARD SPACE FLIGHT CENTER							0	RIG. APP\	-	15/92
APPROVAL J. MADDEN		EOS A	M-1 SP.	ACECR.	AFT MA	STER	L/	AST CHAN	-	30/92
ACCOMP. C. SCOLESE				·	Pa	ge 1 of	1 S	TATUS AS		06/92
Year MILESTONES	91	92	93	94	95	96	97	98	99	00
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2 EOS AM-1 MAJOR MILESTONES		<u>: : : 1</u>			∇					
3										
4 EOS AM-1 INSTRUMENTS:					, , , , , , , , , , , , , , , , , , , ,					
5 MODIS	Y	AWD:	PDR:	CDR		<u> </u>				
6 ASTER	AWD	: : : 5	PDR	· · · · · · · · · · · · · · · · · · ·	DR::					
7 CERES	; ; ;P	DR Y E	IP C	<u> </u>	SCN'R #1	<u> </u>	2			
8 MISR		EIP 4		Y		$\overline{}$				
9 MOPITT	<i></i>	AWD:	: : : : : : F	DR : C	DDR:		7	DELIVE	RED TO S	CINT
10			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
11 S/C BUS DES BLD & TEST:]	₩ BU	S PDR	BUS	CDR	· · · · · · · · · · · · · · · · · · ·			: : : : : ::-::	: : : : : : : : : : : : : : : : : : :
12 SUBSYSTEM DESIGN		V		<u> </u>		· · · · · · · · · · · · · · · · · · ·				
13 SUBSYSTEMS FAB ASSY & TEST		PD	Rs:	CDRs			7 : : : <u></u> .	* 1 * * * * * * * * * * * * * * * * * *		
14 INSTRUMENT I & T TO S/C BUS].j.i.j.				; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		<u> </u>			
15 SPACECRAFT ENVIRONMENTAL TEST					: : : : : : : : : : : : : : : : : : : :			\sum		
16 LAUNCH SITE OPERATIONS						· · · · · · · · · · · · · · · · · · ·	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Υ		
17										
18		<u>; </u>			; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			<u> </u>		
19 EOSDIS MAJOR MILESTONES			: : : : :		:			GRI	SYS RE	ADY
20										
NOTE:										

EOS AM 1992 PDR / KEY EVENTS SCHEDULE

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Spacecraft Bus PDR Activities										¥s/i		us P		-	s	C B Ship	Da S/O	ita F C Bi	Pkg us P	lo G DR	SFC Dry	npul 5/1 Run 5/2-3	8 5/2		7	CB	lus	PDF	A Ac	ction	Re	spo	nse	s 6.	/4-7	731									
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CONSTRAINTS

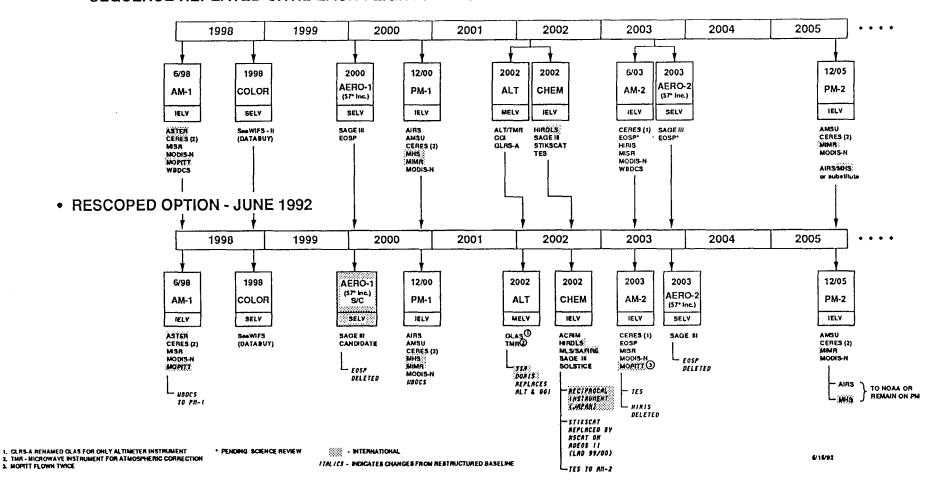
- NO DELAY TO THE JUNE 1998 LAUNCH READINESS DATE
- MAINTAIN THE INSTRUMENT COMPLEMENT AND SCIENCE IDENTIFIED THROUGH THE RESTRUCTURED PROGRAM TO THE MAXIMUM EXTENT PRACTICABLE
- TO THE MAXIMUM EXTENT POSSIBLE MEET
 - -- SCIENCE REQUIREMENTS DOCUMENTED BY THE INTERGOVERNMENTAL PANEL OF CLIMATE CHANGE (IPCC)
 - -- THE MEASUREMENT CAPABILITIES SHALL, WHERE APPLICABLE, BE EQUAL TO OR GREATER THAN THOSE PROVIDED DURING PHASE 1 OF MISSION TO PLANET EARTH
 - -- NASA'S COMMITMENT TO PROVIDE SPACE MEASUREMENTS TO THE UNITED STATES GLOBAL CHANGE RESEARCH PROGRAM

OBJECTIVES

- REDUCE THE EOS BUDGET THROUGH THE YEAR 2000 FROM THE \$11 BILLION RESULTING FROM THE EOS RESTRUCTURING ACTIVITY OF 1991 TO \$8 BILLION
- REDUCE THE FY 1994 BUDGET REQUEST BY 30%
- REDUCE THE TOTAL COST FROM FY 1995 THROUGH FY 2000 BY AN AVERAGE OF 30%

EOS Mission Launch Profile Crosswalk Restructured Baseline vs. Rescoped Option

- RESTRUCTURED BASELINE LAUNCH PROFILE DECEMBER 1991
 - ACRIM, SOLSTICE AND EITHER MLS OR SAFIRE FLIGHTS OF OPPORTUNITY (FOO)
 - SEQUENCE REPEATED UNTIL EACH FLIGHT FLOWN THREE TIMES



SUMMARY

- MAJOR SAVINGS WERE REALIZED AS FOLLOWS:
 - IMPLEMENTING A COMMON SPACECRAFT APPROACH FOR PM-1 AND LATER
 - -- AERO AND ALT SPACECRAFT WOULD BE UNIQUE
 - COST DRIVEN APPROACH ADOPTED FOR THE FIRST UNIT OF MULTIPLE INSTRUMENT BUILDS
 - COST DRIVEN APPROACH ADOPTED FOR DEVELOPMENT OF ALGORITHMS BY LIMITING THE AVAILABLE AT-LAUNCH PRODUCTS

THIS REDUCED FUNDING REQUIREMENTS AND CONTINGENCY WITH MINIMAL IMPACT TO SCIENCE OR RISK

- TO ACHIEVE THE FULL 30% REDUCTION IT WILL BE NECESSARY TO IMPACT SCIENCE AND RISK
 - ALL ASPECTS OF EOS MUST BE REDUCED
 - REDUCE CONTINGENCY IN EARLY YEARS
 - HIRIS WOULD BE DELETED: REQUIREMENTS COULD BE LEVIED ON LANDSAT 8; EVALUATING HIRIS-2
- GREATER RELIANCE ON NOT YET NEGOTIATED AGREEMENTS WITH INTERNATIONAL OR OTHER AGENCY PARTNERS WOULD BE REQUIRED
- IMPROVEMENTS WERE REALIZED
 - STICKSCAT COULD BE ADVANCED TO A 1999 OR 2000 LRD
 - ACRIM, MLS/SAFIRE, SOLSTICE COULD BE ACCOMMODATED